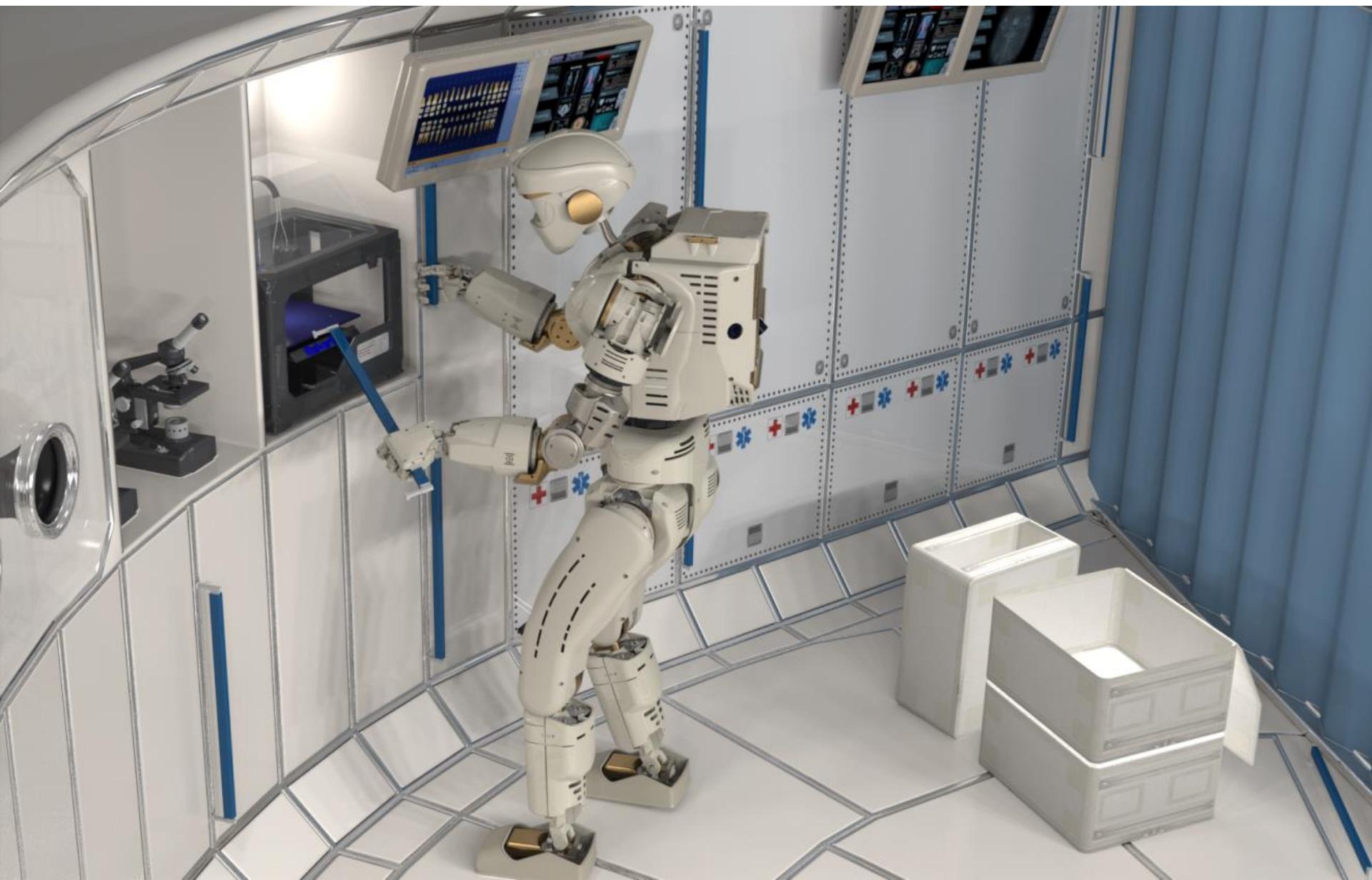


NASA Space Robotics Challenge

Overview

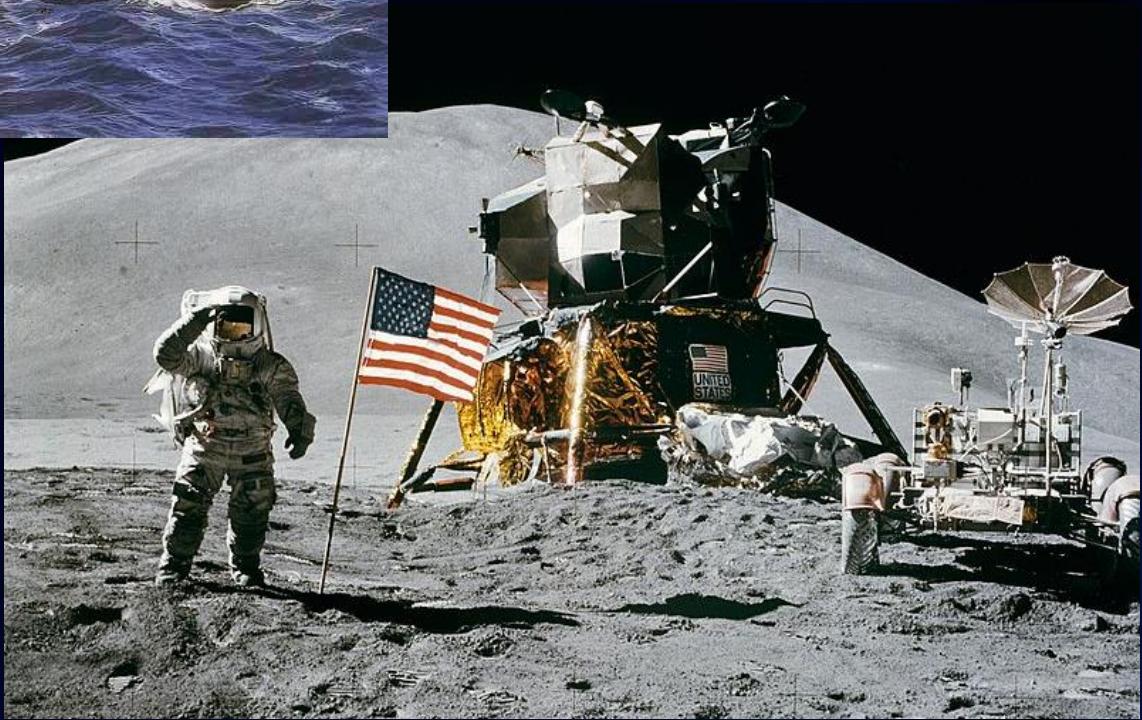
Dr. Robert (Rob) O. Ambrose
Division Chief
Software, Robotics, and Simulation Division
NASA JSC Engineering



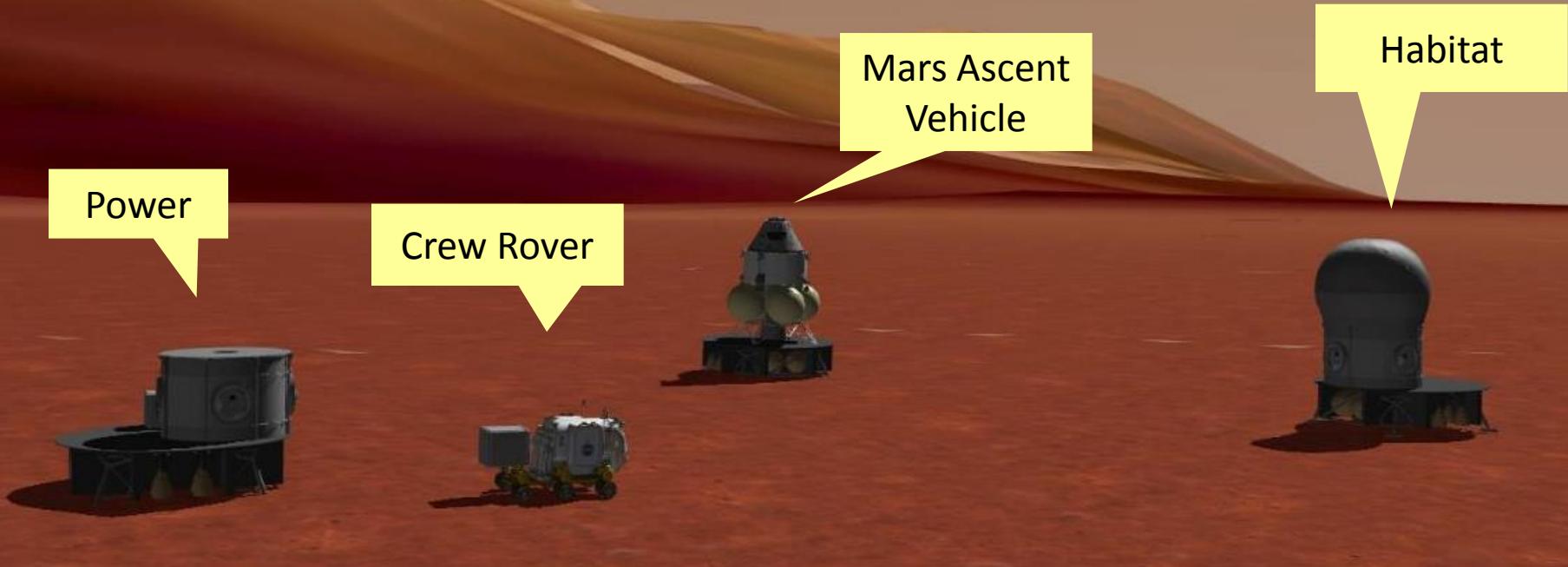
Robot pre-deploying and tending equipment before crew arrival

Main Points

- A new approach to space exploration
- NASA and NSF Investment in this community.



Explorers, taking everything with them



**Pre-deployed assets for human Mars exploration
(tended by robots for years)**

National Robotics Initiative (NRI)

NSF, NASA, NIH, USDA, DARPA, DOE

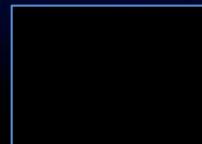


President Obama, June 2011



NRA Requirements

- Giving out 2 Robots
- Funded by NASA & NSF
- US Universities
- Participated in the DRC
- Written Proposal
- Due in August, 2015



NRA Solicitation

- **Solicitation Number:** NNH15ZOA001N-15GCD-C2
- **Posted Date:** Jun 03, 2015
- **FedBizOpps Posted Date:** Jun 03, 2015
- **Recovery and Reinvestment Act Action:** No
- **FedGrants Posted Date:** Jun 03, 2015
- **Classification Code:** A - Research and Development
- **NAICS Code:** 541712

Follow On Funding & Challenges

Robot Host Labs will
get a robot and
funding

We are formulating a
Space Robotics
Challenge

Host Labs will help
validate tasks



Main Points

- Robots will enable a new approach to human space exploration by pre-deploying equipment before crew arrive.
- The robot skills NASA needs are similar to the DRC, and we are going to offer NRI robots with the NSF to help this community.

Questions?

